

543,194

Rec'd PCT/PTO 21 JUL 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number  
WO 2005/061768 A1

(51) International Patent Classification<sup>7</sup>: B65G 15/34

D03D 11/00,

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2003/037015

(22) International Filing Date:

18 November 2003 (18.11.2003)

(25) Filing Language:

English

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language:

English

(71) Applicant (for all designated States except US): MOL BELTING COMPANY [US/US]; 2532 Waldorf Court, Grand Rapids, MI 49544 (US).

**Published:**

— with international search report

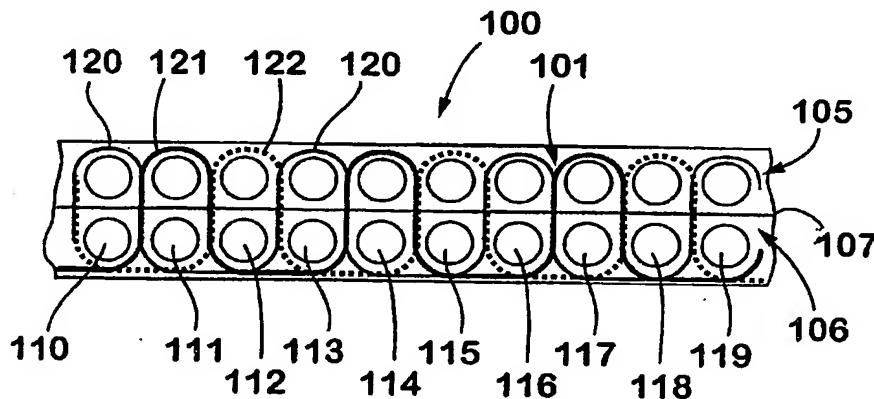
(72) Inventor; and

(75) Inventor/Applicant (for US only): MOL, Edward, T. [US/US]; 12374 24th Avenue, Marne, MI 49435 (US).

(74) Agent: BAIR, Joel, E.; McGarry Bair PC, 171 Monroe Ave. NW, Suite 600, Grand Rapids, MI 49503 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTERWOVEN BELT FABRIC



(57) Abstract: An interwoven belting fabric (100, 200) for use in conveyors, including treadmills, is constructed of a dual layer of weft yarns (105, 106, 206, 207) comprising adjacent couples (110-119, 210-219), a plurality of middle warp yarns (107, 208), and a plurality of binder warp yarns (120-122, 220-222). Each middle warp yarn is heat set under tension so that it is sufficiently straight and inelastic to bear loads under tension without twisting or stretching.

WO 2005/061768 A1

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/03/37015

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 D03D11/00 B65G15/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 D03D B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 376 440 A (KOSEKI TOMOHIRO) 27 December 1994 (1994-12-27)	1,3
Y	column 2, line 66 – column 3, line 35; figure 1	2,4,5
X	US 3 872 895 A (TAKADA TAKEZO) 25 March 1975 (1975-03-25) column 4, line 48 – line 62; figure 2	1
Y	GB 826 011 A (JOHN LEWIS; RUBBER IMPROVEMENT LTD) 23 December 1959 (1959-12-23) abstract	2
Y	EP 0 278 769 A (SCAPA GROUP PLC) 17 August 1988 (1988-08-17) the whole document	4,5
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

21 July 2004

Date of mailing of the International search report

28/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL – 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Pussemier, B

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 03/37015

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/35785 A (ANDRESEN FREDERIC PEMBER ; GOODYEAR TIRE & RUBBER (US); MAGUIRE DAVID) 22 June 2000 (2000-06-22) the whole document -----	1,3
A	US 2002/142687 A1 (NAGAWA AKIRA ET AL) 3 October 2002 (2002-10-03) the whole document -----	1,3
A	US 6 328 077 B1 (MOL EDWARD T) 11 December 2001 (2001-12-11) cited in the application the whole document -----	1-5

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/37015

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 5376440	Å 27-12-1994	JP	6041843 A	15-02-1994
US 3872895	A 25-03-1975	NONE		
GB 826011	A 23-12-1959	NONE		
EP 0278769	A 17-08-1988	AU AU CA EP FI GB JP NZ US ZA	606385 B2 1168888 A 1311400 C 0278769 A2 880672 A 2201695 A ,B 63295786 A 223511 A 4870998 A 8800999 A	07-02-1991 18-08-1988 15-12-1992 17-08-1988 14-08-1988 07-09-1988 02-12-1988 26-07-1990 03-10-1989 10-08-1988
WO 0035785	A 22-06-2000	WO AU AU BR CA EP US ZA	0035785 A1 759242 B2 1726599 A 9816086 A 2354020 A1 1175358 A1 6427728 B1 9907525 A	22-06-2000 10-04-2003 03-07-2000 14-08-2001 22-06-2000 30-01-2002 06-08-2002 07-06-2000
US 2002142687	A1 03-10-2002	JP JP	3459185 B2 2000185624 A	20-10-2003 04-07-2000
US 6328077	B1 11-12-2001	AU CA EP WO	1810100 A 2349553 A1 1133421 A1 0026067 A1	22-05-2000 11-05-2000 19-09-2001 11-05-2000